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10/591,766	09/01/2006	Yosuke Takano	Q96603	6346

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EXAMINER
CHAI, LONGBIT

ART UNIT	PAPER NUMBER
2431	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/591,766	TAKANO, YOSUKE
Office Action Summary	Examiner	Art Unit	
	LONGBIT CHAI	2431	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>01 September 2006</u>.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-23</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-23</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>01 September 2006</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>9/1/2006</u>

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____

5)☐ Notice of Informal Patent Application

6)☐ Other: _____

DETAILED ACTION

Priority

1.   Applicant's claim for benefit of domestic priority under 35 U.S.C. 119(e) is

acknowledged.

The application is filed on 9/1/2006 but has a has a foreign priority application filed on

3/4/2004.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2.   Claims 11, 16 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Colvin

et al. (U.S. Patent 6,799,277).

As per claim 11, Colvin teaches a robot apparatus comprising:

a data storage unit that stores a program of performing a predetermined function (Colvin:

Figure 16);

an execution unit that executes said program (Colvin: Figure 16);

a communication unit including at least one of a sound generator and an image display

unit (Colvin: Figure 16);

a receiving unit that receives expansion data that expands said function from a data supply device (Colvin: Column 6 Line 60 – Column 7 Line 14 and Column 10 Line 19 – 21: a plurality of added programs to be downloaded into a local device is qualified as a plurality of expansion data);

an update unit that stores said expansion data received by said receiving unit in said data storage unit thus to add a new program or modify said program (Colvin: Column 6 Line 60 – 61 and Column 10 Line 19 – 21: adding program code to an application);

a decision unit that decides whether a condition that permits accepting said expansion data is satisfied (Colvin: Column 10 Line 57 – 61);

a password storage unit that stores a password associated with said plurality of expansion data acquirable under each such condition, to be used when receiving said expansion data from said data supply device (Colvin: Column 10 Line 10 – 61); and

a password acquisition unit that makes access to said password storage unit and obtains said password for said expansion data corresponding to said decided condition (Colvin: Column 10 Line 10 – 61);

wherein said password obtained by said password acquisition unit is output to a user via said communication unit (Colvin: Column 9 Line 47 – 54: a master password is transferred / output to a user through a communication unit).

As per claim 20, Colvin teaches a data supply device comprising:

a connector for connection via a network to an apparatus that executes a program of performing a predetermined function (Colvin: Figure 16);

an expansion data storage unit that stores a plurality of expansion data that expands a function of said apparatus (Colvin: Column 6 Line 60 – Column 7 Line 14 and Column 10 Line

19 – 21: a plurality of added programs to be downloaded into a local device is qualified as a plurality of expansion data);

a table storage unit that stores a table on which said plurality of expansion data and said password are associated with each other (Colvin: Column 10 Line 10 – 21: each of a plurality of downloaded software has a serial number and password associated with it);

a password acceptance unit that accepts an input of said password by a user (Colvin: Column 10 Line 57 – 61);

a presentation unit that makes access to said table storage unit to obtain said plurality of expansion data corresponding to said password accepted by said password acceptance unit, and presents said expansion data to said user (Colvin: Column 10 Line 10 – 61);

a selection acceptance unit that accepts said expansion data selected by said user out of said plurality of expansion data presented by said presentation unit (Colvin: Column 10 Line 28 – 35 / Line 57 – 61); and

a transmission unit that reads out said expansion data accepted by said selection acceptance unit from said expansion data storage unit, and transmits said expansion data to said apparatus via said network (Colvin: Column 9 Line 54 – 67).

As per claim 16, Colvin teaches an identification unit that identifies a user, a registered member table on which a user authorized to receive a password is registered, and a judgment unit that makes access to said registered member table to judge whether said user identified by said identification unit is included in said registered member table; and said password output unit of said apparatus outputs said password when said judgment unit judges that said user is included in said registered member table (Colvin: Column 7 Line 32 – 65).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art
> are such that the subject matter as a whole would have been obvious at the time the invention was made to
> a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be
> negatived by the manner in which the invention was made.

3.   Claims 1, 2, 5, 6, 9, 10, 12 and 21 – 23 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Colvin et al. (U.S. Patent 6,799,277), in view of Allahwerdi et al. (U.S. Patent

6,928,558).

As per claim 1 and 21 – 23, Colvin teaches a data update system comprising:

an apparatus that executes a program of performing a predetermined function (Colvin:

Figure 16); and

a data supply device connected to said apparatus via a network, that possesses a

plurality of expansion data that expands a function of said apparatus and transmits said

expansion data to said apparatus (Colvin: Column 6 Line 60 – Column 7 Line 14 and Column 10

Line 19 – 21: a plurality of added programs to be downloaded into a local device is qualified as

a plurality of expansion data);

wherein said apparatus includes:

a data storage unit that stores said program (Colvin: Figure 16 / Element 804);

a receiving unit that receives said expansion data for expanding said function from said

data supply device (Colvin: Column 6 Line 60 – Column 7 Line 14 and Column 10 Line 19 – 21:

a plurality of added programs to be downloaded into a local device is qualified as a plurality of

expansion data);

an update unit that stores said expansion data received by said receiving unit in said

data storage unit, thus to add a new program or update said program (Colvin: Column 6 Line 60

– 61 and Column 10 Line 19 – 21: adding program code to an application);

a password storage unit that stores a password associated with said plurality of

expansion data acquirable under each said condition, to be used when receiving said expansion

data from said data supply device (Colvin: Column 10 Line 5 – 21: each of a plurality of

downloaded software has a serial number and password associated with it).

However, Colvin does not disclose expressly, on the said apparatus, a decision unit that

decides whether a condition that permits accepting said expansion data is satisfied; and a

password output unit that makes access to said password storage unit and obtains said

password for said expansion data corresponding to said decided condition, to output said

obtained password to a user.

Allahwerdi teaches on the said apparatus, a decision unit that decides whether a

condition that permits accepting said expansion data is satisfied (Allahwerdi: Column9 Line 2 –

6 / Line 16 – 30: (a) a software can be downloaded via a radio network and (b) a GSM mutual

authentication protocol involved SRES (Signed Reponses) assures both communication entities

(including said receiving apparatus) need to verify the sender before accepting the downloaded

expansion data); and a password output unit that makes access to said password storage unit

and obtains said password for said expansion data corresponding to said decided condition, to

output said obtained password to a user (Allahwerdi: Column 2 Line 23 – 27: the password is

generated by the software receiving apparatus and output to the user – instead of being

generated by the sender (or server) – i.e., the password is generated by the software receiving

apparatus and output to the user and then input to the network server).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Allahwerdi within the system of Colvin because (a) Colvin teaches reducing unauthorized use of software during the software downloading process (Colvin: Column 2 Line 33 – 35), and (b) Allahwerdi teaches en efficient and security-enhanced mechanism for downloading software without causing any trouble or inconvenience to the user (Allahwerdi: Column 2 Line 60 – 64 and Column 9 Line 1 – 6).

said data supply device includes:

a table storage unit that stores a table in which said plurality of expansion data and said password are associated (Colvin: Column 10 Line 5 – 21: each of a plurality of downloaded software has a serial number and password associated with it);

a password acceptance unit that accepts an input of said password by said user (Colvin: Column 10 Line 57 – 61);

a presentation unit that makes access to said table storage unit, to thereby obtain said plurality of expansion data corresponding to said password accepted by said password acceptance unit and present said expansion data to said user (Colvin: Column 10 Line 5 – 61);

a selection acceptance unit that accepts said expansion data selected by said user out of said plurality of expansion data presented by said presentation unit (Colvin: Column 10 Line 28 – 35 / Line 57 – 61); and

a transmission unit that reads out said expansion data accepted by said selection acceptance unit from said expansion data storage unit, and transmits said expansion data to said apparatus via said network (Colvin: Column 9 Line 54 – 67).

As per claim 2, Colvin as modified teaches:

said apparatus includes an issued password storage unit that stores said password output by said password output unit (Allahwerdi: Column 2 Line 23 – 27);

said transmission unit of said data supply device transmits said password accepted by said password acceptance unit together with said expansion data (Colvin: Column 3 Line 7 – 11 and Column 9 Line 47 – 52: a password associated with each copy of a software may be downloaded to the user device);

said receiving unit of said apparatus receives said password from said data supply device together with said expansion data (Colvin: Column 3 Line 7 – 11 and Column 9 Line 47 – 52);

said update unit of said apparatus makes access to said issued password storage unit, and stores said expansion data received by said receiving unit in said data storage unit, when said password received by said receiving unit is stored in said issued password storage unit, thus to add a new program or update said program (Colvin: Column 10 Line 5 – 61).

As per claim 5, Colvin as modified teaches said data supply device includes: an encryption key calculation unit that calculates an encryption key based on said password accepted by said password acceptance unit, and an encryption unit that reads out and encrypts said expansion data accepted by said the selection acceptance unit from said data storage unit with said encryption key calculated by said encryption key calculation unit; said transmission unit of said data supply device transmits said expansion data encrypted by said encryption unit to said apparatus via said network; said apparatus includes: a decryption key calculation unit that calculates a decryption key based on said password stored in said issued password storage unit, and a decryption unit that decrypts said expansion data received by said receiving unit with said decryption key calculated by said decryption key calculation unit; and said update

unit of said apparatus stores said expansion data decrypted by said decryption unit in said data

storage unit, thus to add a new program or update said program (Colvin: Column 11 Line 43 –

45, Column 8 Line 40 – 44 and Column 19 Line 31 – 34: a security key associated with each

copy of computer software).

As per claim 6, Colvin as modified teaches an identification unit that identifies a user, a

registered member table on which a user authorized to receive a password is registered, and a

judgment unit that makes access to said registered member table to judge whether said user

identified by said identification unit is included in said registered member table; and said

password output unit of said apparatus outputs said password when said judgment unit judges

that said user is included in said registered member table (Colvin: Column 7 Line 32 – 65).

As per claim 9, Colvin as modified teaches:

 a terminal device connected to said external apparatus via said network (Colvin: Figure

15 / Element 748: a modem is indeed a terminal device), including:

an acceptance unit that accepts an input of said password or selection of said expansion

data, and a transmission unit that transmits said input password or said selected expansion data

accepted by said acceptance unit to said external apparatus via a network (Allahwerdi: Column

2 Line 23 – 27: the password is generated by the software receiving apparatus and output to the

user and then input to the network server);

wherein said data supply device includes a receiving unit that receives via said network

said input password or said selected expansion data transmitted by said terminal device (Colvin:

Column 10 Line 57 – 61);

said password acceptance unit of said data supply device accepts an input of said

password received by said receiving unit (Colvin: Column 10 Line 57 – 61); and

said selection acceptance unit of said data supply device accepts said selection of said

expansion data received by said receiving unit (Colvin: Column 10 Line 28 – 35 / Line 57 – 61).

As per claim 10, Colvin as modified teaches said presentation unit of said data supply

device includes an instruction unit that instructs a screen display of said plurality of expansion

data to said terminal device via said network; and said terminal device includes: an instruction

acceptance unit that accepts via said network an instruction to display said screen from said

instruction unit of said data supply device, and a display unit that displays said screen

presenting said plurality of expansion data according to said instruction to display said screen

accepted by said instruction acceptance unit (Colvin: Column 10 Line 61 – 64 and Column 11

Line 56 – 58).

As per claim 12, the claim limitations are met as the same reasons as that set forth in

the paragraph above regarding to claim 2 – besides, see the same rationale of combination

applied herein as above in rejecting the claim 1.

4.   Claims 13, 14, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Colvin et al. (U.S. Patent 6,799,277), and in view of Takahiro (JP 2004-008270).

As per claim 13, Colvin does not disclose expressly teach a time table storage unit that

stores at least one password corresponding to a utilization time of said robot apparatus, and a

timer that measures said utilization time of said apparatus; wherein said password acquisition

unit makes access to said time table storage unit to obtain said at least one password
corresponding to said utilization time of said apparatus measured by said timer, and outputs
said password.

Takahiro teaches a time table storage unit that stores at least one password
corresponding to a utilization time of said robot apparatus, and a timer that measures said
utilization time of said apparatus; wherein said password acquisition unit makes access to said
time table storage unit to obtain said at least one password corresponding to said utilization time
of said apparatus measured by said timer, and outputs said password (Takahiro: Abstract:
Solution section: a password associated with a game history information (indeed including a
utilization time) and output the password to a cellular phone).

It would have been obvious to a person of ordinary skill in the art at the time the
invention was made to combine the teaching of Takahiro within the system of Colvin because
(a) Colvin teaches reducing unauthorized use of software by protecting each of a plurality of
software with a serial number and password associated with it (Colvin: Column 2 Line 33 – 35),
and (b) Takahiro teaches en efficient and security-enhanced mechanism by protecting each of a
plurality of game history information with a password associated with it (Takahiro: Abstract:
Solution section).

As per claim 14, Colvin does not disclose expressly teach a state table that contains at
least an inner state of said robot apparatus associated with said password; and a state monitor
unit that monitors said inner state of said robot apparatus; wherein said password acquisition
unit makes access to said state table to obtain said password corresponding to said inner state
of said robot apparatus monitored by said state monitor unit.

Takahiro teaches a state table that contains at least an inner state of said robot apparatus associated with said password; and a state monitor unit that monitors said inner state of said robot apparatus; wherein said password acquisition unit makes access to said state table to obtain said password corresponding to said inner state of said robot apparatus monitored by said state monitor unit (Takahiro: Abstract: Solution section: a password associated with a game history information (indeed including a utilization time), which is indeed an indication of a state of the apparatus device). see the same rationale of combination applied herein as above in rejecting the claim 13.

As per claim 18 and 19, Colvin does not disclose expressly teach a function completion table that contains a parameter indicating completion of utilization of a specific function generated in said apparatus in correlation with said password output when said utilization of said specific function is completed, and a function completion check unit that makes access to said function completion table to monitor said completion of utilization of said specific function generated in said apparatus, and obtains said corresponding password when said completion of utilization is confirmed; and said password output unit of said apparatus outputs said password obtained by said function completion check unit.

Takahiro teaches a function completion table that contains a parameter indicating completion of utilization of a specific function generated in said apparatus in correlation with said password output when said utilization of said specific function is completed, and a function completion check unit that makes access to said function completion table to monitor said completion of utilization of said specific function generated in said apparatus, and obtains said corresponding password when said completion of utilization is confirmed; and said password output unit of said apparatus outputs said password obtained by said function completion check

unit (Takahiro: Abstract: Solution section: a password associated with a game history

information (indeed including a utilization time), which is indeed an indication of a state of the

apparatus device). see the same rationale of combination applied herein as above in rejecting

the claim 13.

5.   Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Colvin et al.

(U.S. Patent 6,799,277), and in view of Yang (U.S. Patent 2002/0106081).

        As per claim 15, Colvin does not teach a decryption key calculation unit that calculates a

decryption key based on said password stored in said issued password storage unit; and a

decryption unit that decrypts said expansion data received by said receiving unit with said

decryption key calculated by said decryption key calculation unit; wherein said update unit

stores said expansion data decrypted by said decryption unit in said data storage unit, thus to

add a new program or update said program.

        Yang teaches a decryption key calculation unit that calculates a decryption key based

on said password stored in said issued password storage unit; and a decryption unit that

decrypts said expansion data received by said receiving unit with said decryption key calculated

by said decryption key calculation unit; wherein said update unit stores said expansion data

decrypted by said decryption unit in said data storage unit, thus to add a new program or update

said program (Yang: Para [0024] / Last sentence: This password is corresponding to the

encryption key to encrypt this particular digital content to be downloaded).

        It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to combine the teaching of Yang within the system of Colvin because (a)

Colvin teaches reducing unauthorized use of software by protecting each of a plurality of

software with a security key associated with each copy of computer software associated with it
(Colvin: Column 11 Line 43 – 45, Column 8 Line 40 – 44 and Column 19 Line 31 – 34), and (b)
Yang teaches en efficient and security-enhanced mechanism by protecting an downloaded
digital content using a password encryption key to encrypt this particular digital content to be
downloaded (Yang: Para [0024] / Last sentence).

6.   Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Colvin et al.
(U.S. Patent 6,799,277), and in view of Yang (U.S. Patent 2002/0106081).

         As per claim 17, Colvin does not teach a user image recording unit that records first
image information of said user registered in said registered member table; wherein said
identification unit includes an imaging unit that images of said user; said judgment unit
compares second image information of said user imaged by said imaging unit with said image
information stored in said user image recording unit, thus to judge whether those image
information are matched with each other; and said password acquisition unit obtains said
password when said comparison unit judges that those image information are matched with
each other.
         Anderson teaches a user image recording unit that records first image information of
said user registered in said registered member table; wherein said identification unit includes an
imaging unit that images of said user; said judgment unit compares second image information of
said user imaged by said imaging unit with said image information stored in said user image
recording unit, thus to judge whether those image information are matched with each other; and
said password acquisition unit obtains said password when said comparison unit judges that
those image information are matched with each other (Anderson: Para [0038]).

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to combine the teaching of Anderson within the system of Colvin because

(a) Colvin teaches reducing unauthorized use of software by protecting each of a plurality of

software with a security key associated with each copy of computer software associated with it

(Colvin: Column 11 Line 43 – 45, Column 8 Line 40 – 44 and Column 19 Line 31 – 34), and (b)

Anderson teaches en efficient and security-enhanced mechanism by using the security

information obtained from a user that includes both biometric information and a password

(Anderson: Para [0038]).

7.   Claims 3, 4, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Colvin et al. (U.S. Patent 6,799,277), in view of Allahwerdi et al. (U.S. Patent 6,928,558), and in

view of Takahiro (JP 2004-008270).

As per claim 3, Colvin as modified does not disclose expressly a time table storage unit

that stores at least one password corresponding to a utilization time of said apparatus; and a

timer that measures said utilization time of said apparatus; wherein said password output unit

makes access to said time table storage unit to obtain said at least one password corresponding

to said utilization time of said apparatus measured by said timer, and outputs said password.

Takahiro teaches a time table storage unit that stores at least one password

corresponding to a utilization time of said apparatus; and a timer that measures said utilization

time of said apparatus; wherein said password output unit makes access to said time table

storage unit to obtain said at least one password corresponding to said utilization time of said

apparatus measured by said timer, and outputs said password (Takahiro: Abstract: Solution

section: a password associated with a game history information (indeed including a utilization

time) and output the password to a cellular phone).

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to combine the teaching of Takahiro within the system of Colvin as modified

because (a) Colvin teaches reducing unauthorized use of software by protecting each of a

plurality of software with a serial number and password associated with it (Colvin: Column 2

Line 33 – 35), and (b) Takahiro teaches en efficient and security-enhanced mechanism by

protecting each of a plurality of game history information with a password associated with it

(Takahiro: Abstract: Solution section).

As per claim 4, Colvin as modified teaches a state table that contains at least an inner

state of said robot apparatus associated with said password; and a state monitor unit that

monitors said inner state of said robot apparatus; wherein said password acquisition unit makes

access to said state table to obtain said password corresponding to said inner state of said

robot apparatus monitored by said state monitor unit (Takahiro: Abstract: Solution section: a

password associated with a game history information (indeed including a utilization time), which

is indeed an indication of a state of the apparatus device).

As per claim 7 and 8, Colvin as modified teaches a function completion table that

contains a parameter indicating completion of utilization of a specific function generated in said

apparatus in correlation with said password output when said utilization of said specific function

is completed, and a function completion check unit that makes access to said function

completion table to monitor said completion of utilization of said specific function generated in

said apparatus, and obtains said corresponding password when said completion of utilization is

confirmed; and said password output unit of said apparatus outputs said password obtained by

said function completion check unit (Takahiro: Abstract: Solution section: a password

associated with a game history information (indeed including a utilization time), which is indeed

an indication of a state of the apparatus device).

        Any inquiry concerning this communication or earlier communications from the examiner

should be directed to LONGBIT CHAI whose telephone number is (571)272-3788. The

examiner can normally be reached on Monday-Friday 9:00am-5:00pm.

        If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kim Y. Vu can be reached on 571-272-3859. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

        Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

        /Longbit Chai/

    Longbit Chai Ph.D.
  Primary Patent Examiner
        Art Unit 2431
         10/14/2008